

INTERNATIONAL SEARCH REPORT

Int'l Application No
PCT/IB2005/050474

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L12/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 03/030459 A (XTREMESPECTRUM, INC; MONTANO, SERGIO, T; SHVODIAN, WILLIAM, M; ODMAN,) 10 April 2003 (2003-04-10) page 2, line 26 - page 3, line 19 page 5, line 1 - line 23 page 6, line 7 - line 27 page 11, line 22 - page 12, line 6 figures 3,5	1,56-60
A	EP 1 206 070 A (SHARP KABUSHIKI KAISHA) 15 May 2002 (2002-05-15) column 5, paragraph 22 - paragraph 23 column 6, paragraph 27 - column 7, paragraph 33	1-4, 56-60

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

19 May 2005

Date of mailing of the international search report

30/05/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl
Fax: (+31-70) 340-3016

Authorized officer

Müller, N

INTERNATIONAL SEARCH REPORT

Inte	<input checked="" type="checkbox"/>	Application No
PCT/IB2005/050474		

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>EUN-SUN JUNG ET AL: "An energy efficient MAC protocol for wireless LANs"</p> <p>PROCEEDINGS IEEE INFOCOM 2002. THE CONFERENCE ON COMPUTER COMMUNICATIONS.</p> <p>21ST. ANNUAL JOINT CONFERENCE OF THE IEEE COMPUTER AND COMMUNICATIONS SOCIETIES. NEW YORK, NY, JUNE 23 - 27, 2002, PROCEEDINGS IEEE INFOCOM. THE CONFERENCE ON COMPUTER COMMUNICATIONS,</p> <p>vol. VOL. 1 OF 3. CONF. 21, 23 June 2002 (2002-06-23), pages 1756-1764, XP010593744</p> <p>ISBN: 0-7803-7476-2</p> <p>chapters I, II and IV</p> <p>-----</p> <p>US 2003/163579 A1 (KNAUERHASE ROBERT C ET AL) 28 August 2003 (2003-08-28)</p> <p>page 1, paragraph 16</p> <p>page 2, paragraphs 21,22,27</p> <p>-----</p>	1-4, 56-60
A		1,56-60

INTERNATIONAL SEARCH REPORT

Inte	al Application No
PCT/IB2005/050474	

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 03030459	A 10-04-2003	CA	2461733 A1	10-04-2003
		EP	1457006 A2	15-09-2004
		WO	03030459 A2	10-04-2003
		US	2003063619 A1	03-04-2003
		US	2004072573 A1	15-04-2004
EP 1206070	A 15-05-2002	US	2002131371 A1	19-09-2002
		EP	1206070 A2	15-05-2002
		JP	2002185474 A	28-06-2002
		US	2002163928 A1	07-11-2002
		US	2002159418 A1	31-10-2002
US 2003163579	A1 28-08-2003	NONE		